

Table 1. The results of identifications of differentially expressed proteins using MALDI-TOF/TOF MS.

Spot	Record number	Name of protein	Score		PI		MW		Functional classification
			Theoretical	Observed	Theoretical	Observed	Theoretical	Observed	
Over-expressed proteins									
1	gj 125144	Ig kappa chain C	185	4.97	5.02	11765	26051	Immunity protection	
2	gj 55628	Zinc finger protein	489	6.09	6.49	70670	34886	Regulation of transcription, translation and signal transduction	
3	gj 61556986	Serotransferrin	275	7.14	5.87	78512	53532	Transport and metabolism	
4	gj 33086640	Haptoglobin	318	6.11	5.71	43075	53590	Transport and metabolism	
5	gj 12084772	Macroglobulin	250	5.78	5.83	15354	54878	Generation and degradation of extra cellular matrix	
6	gj 203063	Alpha-1-antitrypsin	101	5.70	5.07	45978	61662	Acute phase reaction and immunity protection	
7	gj 46237594	Complement factor	97	6.57	5.96	86435	77040	Cell growth and proliferation	
Under-expressed proteins									
8	gj 71824	Fibrinogen alpha chain precursor	131		6.43	61162	38765	Generation and degradation of extra cellular matrix	
9	gj 510196	Glyceraldehyde-3-phosphate dehydrogenase	140	7.57	7.56	78090	31613	Metabolism	
10	gj 158138568	Albumin	208	6.09	6.75	70710	34348	Regulation of the colloidal osmotic pressure of plasma.	
11	gj 17105350	2,4-dienoyl-CoA reductase,	103	9.18	4.71	30268	36531	Cell apoptosis and oxidation reaction	
12	gj 136467	Transthyretin	397	5.77	6.29	15824	42190	Metabolic process	
13	gj 83816939	α -1-inhibitor 3 precursor	303	5.70	5.84119	165038	60934	Immunity	
14	gj 203941	Vitamin D-binding protein	126	5.76	5.44	55079	62398	Modulate immunological processes	
15	gj 135809	Prothrombin	156	6.28	5.26	71792	91978	Immunity	

Note: Relative molecular weight (MW); Isoelectric point (PI)

Table 2. Top enriched biological processes networks for a combined set of differentially expressed proteins ^a.

No.	Pathway	p-value
1	DNA repair process.	0.0002
2	Cell apoptosis	0.0016
3	Oxidation reduction	0.0051
4	Signal transduction	0.0097
5	Metabolic process	0.0187
6	Intracellular signaling cascade	0.0225
7	Regulation of biological process	0.0274
8	Cell communication	0.0298
9	Regulation of cellular process	0.0346
10	Molecular transport	0.0403

^aThe description of the gene ontology biological processes and the corresponding gene ontology identifiers are given.